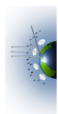


File Names

12:00 Monday, March 21, 2005 1

File #	Original File Name
1	PAC2001_SMMT_R-M_MET-DATA_1-MIN_20010814D23_V1.csv



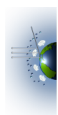
Dataset Key Phrases

2

Data Exchange Standard Version	Principal Investigator Name--last first	Principal Investigator Affiliation	File Contents Description--short long	Sampling Interval As Reported in Main Table	Sampling Frequency Of Data in Main Table	Quality Control Level	Organization Acronym	Organization Name	Data Usage Acknowledgement	Study Or Network Acronym	Study Or Network Name	Country Code	State Or Province Code
NARSTO 2002/05/28 (2.301)	Percival ; Al	Greater Vancouver Regional District (GVRD)	MET_MEAS ; Meteorological Measurements	1 minute	Same as sampling interval	1	YORKU	York University	Greater Vancouver Regional District (GVRD)	PAC2001	Pacific 2001	CA (CANADA)	BC

Principal Investigator Contact Information	Co-investigator Name--last first	Co-investigator Affiliation	Name And Affiliation Of Person Who Generated This File	Date Of Last Modification To Data In Main Table	Name And Version Of Software Used To Create This File	Companion File Name format And Version	Date This File Generated archive Version Number	Table Explanation Of Zero Or Negative Values
Al Percival, Supervisor, Air Monitoring and Computer Services, Air Monitoring and Assessment Division, Air Quality Department, Greater Vancouver Regional District, 436-6746, al.percival@gvrd.bc.ca	None ; None	None	Caroline How, Centre for Atmospheric Chemistry, York University	2004/10/05	MS/Excel 2000	None ; None	2004/10/05 ; 1	Zero values only appear in the wind direction, these are real.

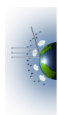
Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
GVRD has not reported minimum sensitivity for anemometer.	No uncertainty has been reported.	Data reported here was measured with GVRD's Mobile Air Monitoring unit. The data has been subjected to the GVRD's own internal QC/QA checks as if this were another station in their air quality network. Contact GVRD for more information on the data.				MET_MEAS	Aloft--tower



Site Information

3

Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)	Site land use	Site location setting	Measurement start date	Measurement end date	Co-incident measurements	Study site ID	Lat lon accuracy
PC01CABCSMMT	Sumas	BC	49.05166	-122.24666	10.0	305.0	Forest	Rural	2001/08/14	2001/09/05			15



NARSTO Standard Flags

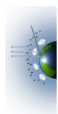
Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
	Historical data that have not been assessed or validated
	Historical data that have not been assessed or validated
M1	Missing value because no value is available
	Missing value because no value is available
	Missing value because no value is available
M2	Missing value because invalidated by data originator
	Missing value because invalidated by data originator
	Missing value because invalidated by data originator
V0	Valid value
	Valid value
	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
	Valid value but comprised wholly or partially of below detection limit data
	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
	Valid estimated value
	Valid estimated value
V3	Valid interpolated value
	Valid interpolated value
	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
	Valid value despite failing to meet some QC or statistical criteria
	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)



NARSTO Standard Flags

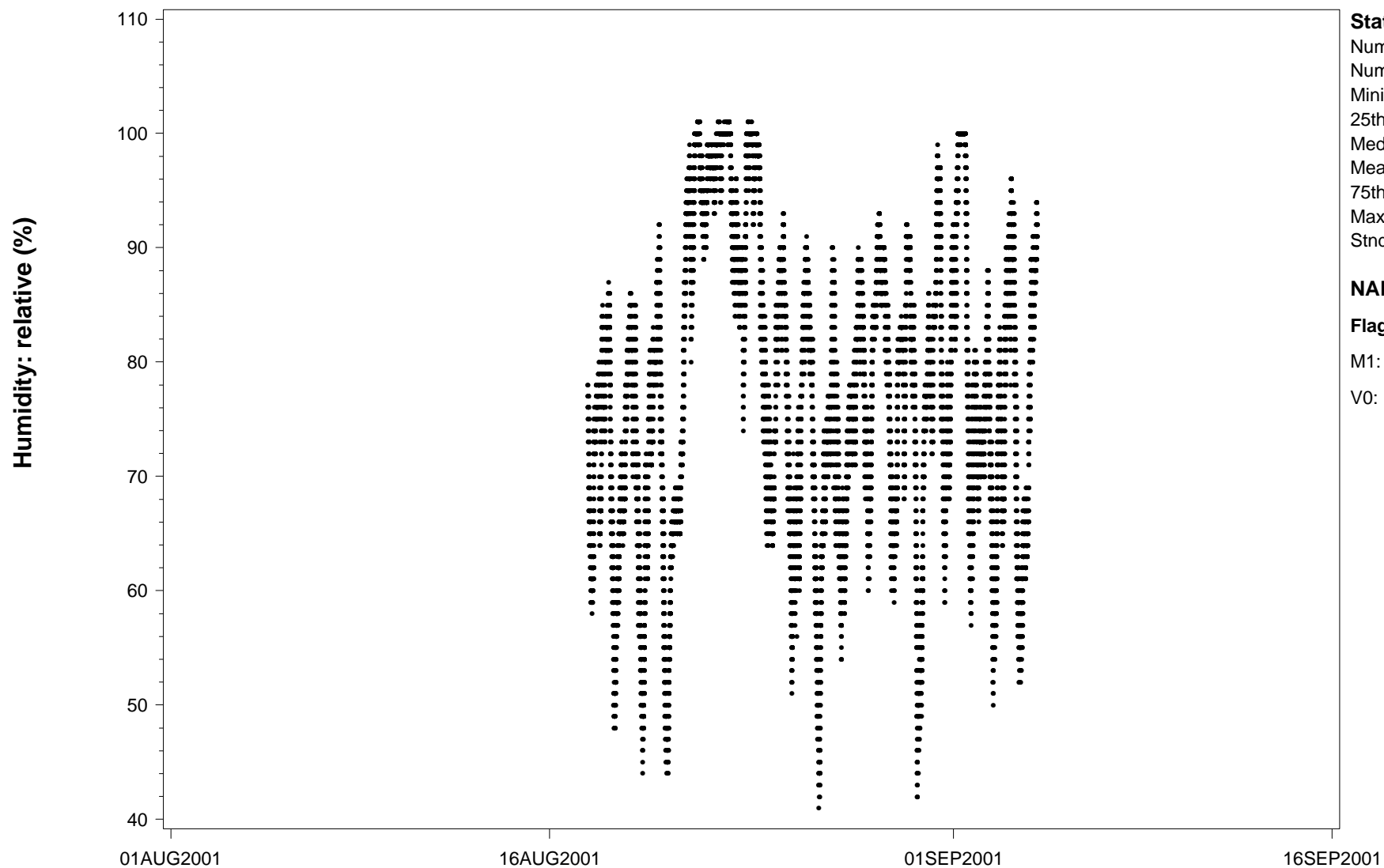
5

Flag: NARSTO	Description
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL
	Valid value but set equal to the detection limit (DL) because the measured value was below the DL
	Valid value but set equal to the detection limit (DL) because the measured value was below the DL



Site ID: **PC01CABCSMMT** Variable name: **Humidity: relative** Units: % Sampling interval: **1 minute** Sampling frequency: **Same as sampling interval**
Observation type: **Meteorology** Field sampling or measurement principle: **Capacitance thin film humidity** Sampling Height above ground (m): **10**
Instrument name and model number: **Vaisala HMP45A**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-14** End Date: **2001-09-05**

**Statistics**

Number of obs: **31,680**
Number of missing: **6,120**
Minimum: **41**
25th Percentile: **68**
Median: **78**
Mean: **77.747**
75th Percentile: **87**
Maximum: **101**
Std Dev.: **13.043**

NARSTO Flags**Flag Symbol Count**

M1: **6,120**
V0: ● **25,560**

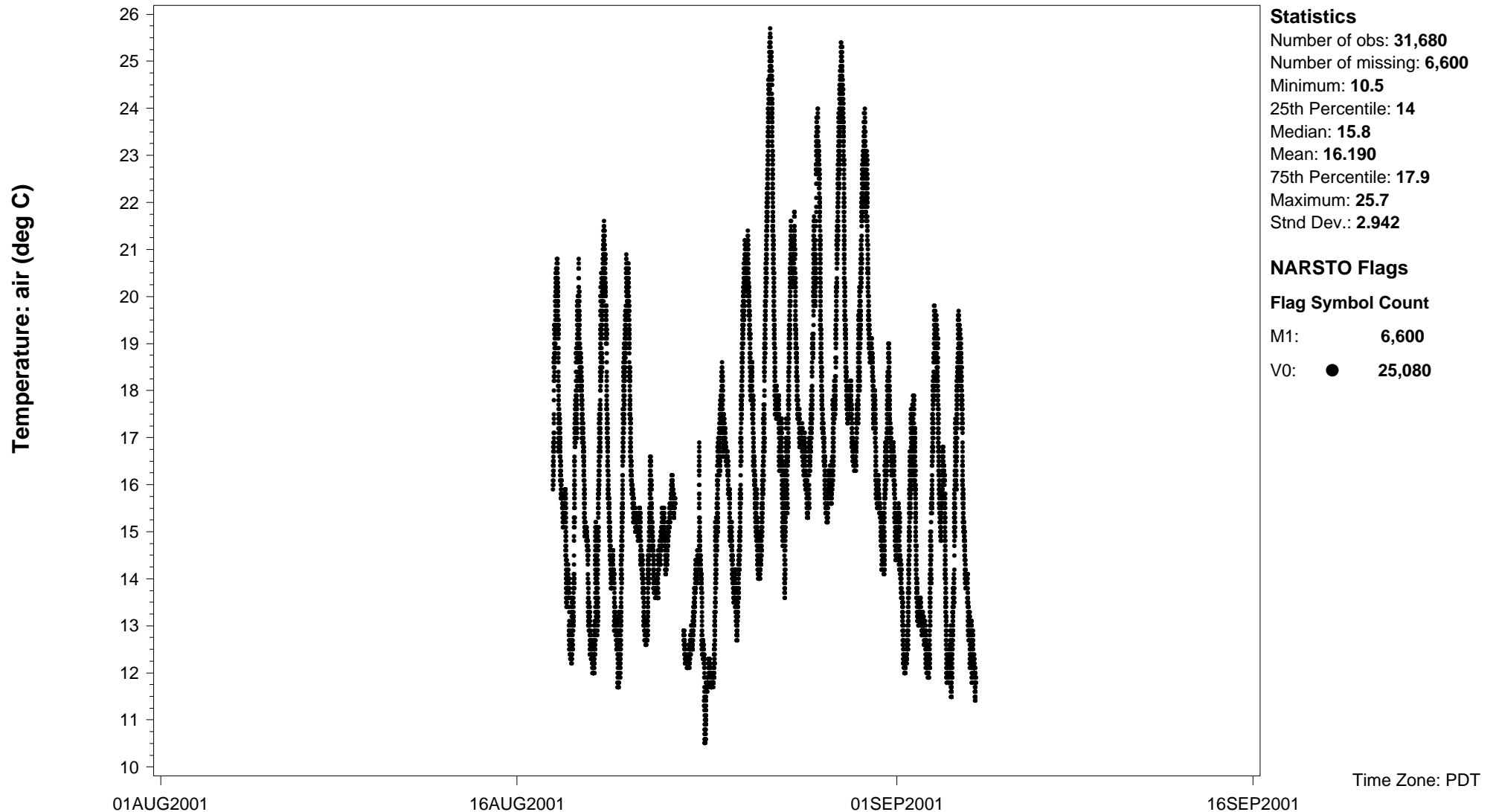


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Temperature: air** Units: **deg C** Sampling interval: **1 minute** Sampling frequency: **Same as sampling interval**
 Observation type: **Meteorology** Field sampling or measurement principle: **Thermistor-based temperature sensor** Sampling Height above ground (m): **10**
 Instrument name and model number: **Vaisala HMP45A**

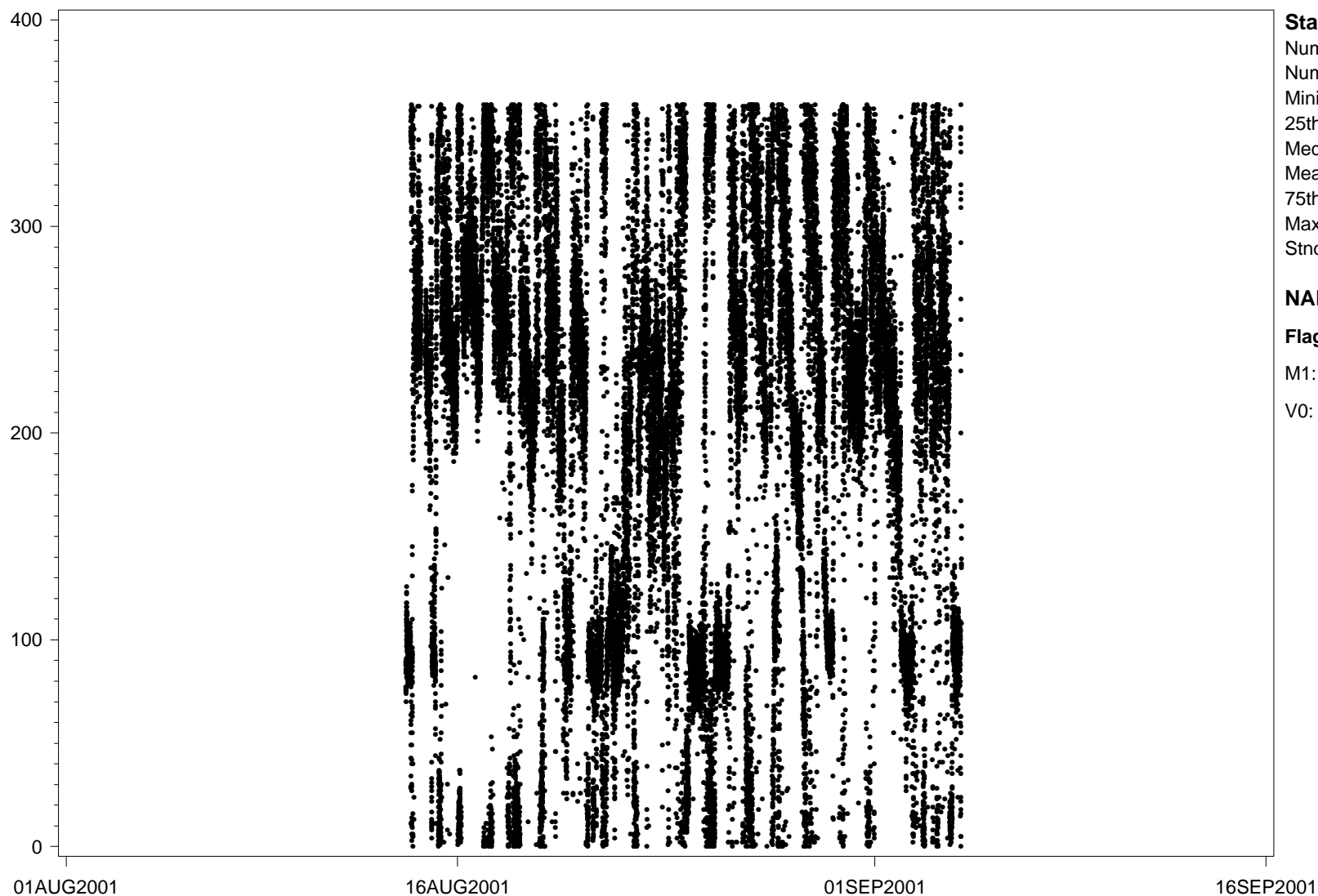
Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-14** End Date: **2001-09-05**



Site ID: **PC01CABCSMMT** Variable name: **Wind direction: horizontal mean scalar** Units: **degree from true north** Sampling interval: **1 minute**
Sampling frequency: **Same as sampling interval** Observation type: **Meteorology** Field sampling or measurement principle: **Anemometer--cup**
Sampling Height above ground (m): **10** Instrument name and model number: **Met-One 120-5**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-14** End Date: **2001-09-05**

Wind direction: horizontal mean scalar (degree from true north)

**Statistics**

Number of obs: **31,680**
Number of missing: **1,440**
Minimum: **0**
25th Percentile: **103**
Median: **224**
Mean: **202.078**
75th Percentile: **275**
Maximum: **359**
Std Dev.: **97.043**

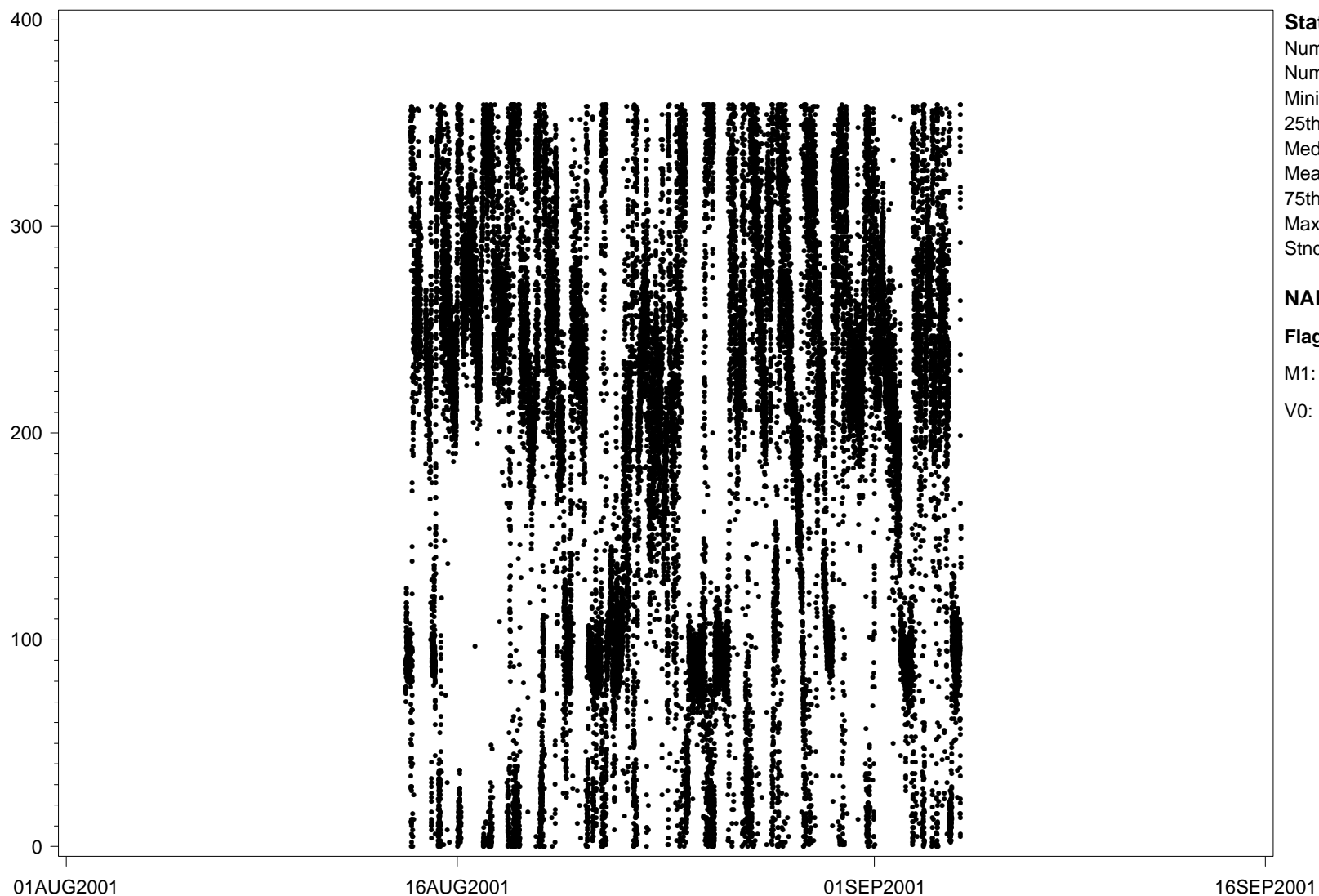
NARSTO Flags**Flag Symbol Count**

M1: **1,440**
V0: ● **30,240**

Site ID: **PC01CABCSMMT** Variable name: **Wind direction: horizontal resultant mean vector** Units: **degree from true north** Sampling interval: **1 minute**
Sampling frequency: **Same as sampling interval** Observation type: **Meteorology** Field sampling or measurement principle: **Anemometer--cup**
Sampling Height above ground (m): **10** Instrument name and model number: **Met-One 120-5**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-14** End Date: **2001-09-05**

Wind direction: horizontal resultant mean vector (degree from true north)

**Statistics**

Number of obs: **31,680**
Number of missing: **1,440**
Minimum: **0**
25th Percentile: **103**
Median: **224**
Mean: **202.208**
75th Percentile: **274**
Maximum: **359**
Std Dev.: **96.972**

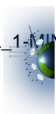
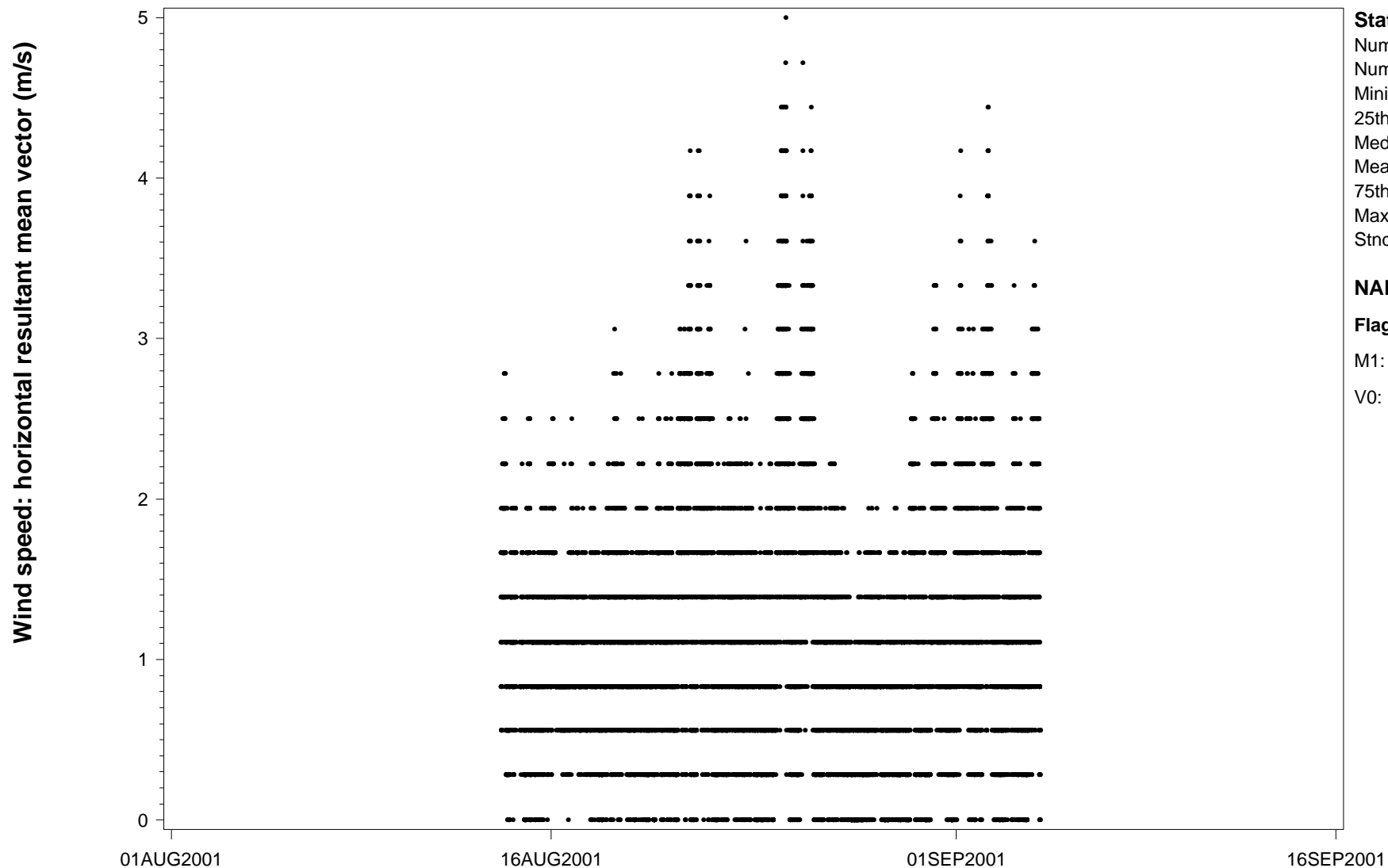
NARSTO Flags**Flag Symbol Count**

M1: 1,440
V0: ● 30,240

Time Zone: PDT

Site ID: **PC01CABCSMMT** Variable name: **Wind speed: horizontal resultant mean vector** Units: **m/s** Sampling interval: **1 minute**
Sampling frequency: **Same as sampling interval** Observation type: **Meteorology** Field sampling or measurement principle: **Anemometer--cup**
Sampling Height above ground (m): **10** Instrument name and model number: **Met-One 120-5**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-14** End Date: **2001-09-05**



Site ID: **PC01CABCSMMT** Variable name: **Wind speed: horizontal scalar mean** Units: **m/s** Sampling interval: **1 minute**
Sampling frequency: **Same as sampling interval** Observation type: **Meteorology** Field sampling or measurement principle: **Anemometer--cup**
Sampling Height above ground (m): **10** Instrument name and model number: **Met-One 120-5**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-14** End Date: **2001-09-05**

